

CONFIDENTIAL

9 May 66

NPIC/P&DS/D/6-735  
20 January 1966

Declass Review by NGA.

MEMORANDUM FOR: Assistant for Photographic Analysis, NPIC

SUBJECT: Dovetail Modification for  Zoom 70 Micro-  
stereoscopes

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REFERENCES: PAG Memo. IPO/OSB/M-101-66, dated 12 January 1966

1. Your memorandum requested that we slightly alter the machine fit of each "dovetail" in order to prevent interchanging rhomboids.

2. This is indeed a valid problem; however, we do not believe the suggested modification is feasible for the following reasons:

- a. It is too late. The majority of the dovetail parts have already been machined and are ready for installation on or about the 30th of February.
- b. It would be prohibitively expensive. Changing the machine fit of each dovetail makes each slide a custom-built unit -- a process that could easily raise the cost of the dovetail modification five-fold.
- c. A change, at this time, could delay the installation of the present dovetail modification by 6 to 9 months.
- d. Any change in the dovetail requires a corresponding change, not only in the rhomboid, but in the monoscopic objective lens plate and in any future attachments; e.g., the  Advanced Rhomboids etc.

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3. We have recognized the urgency of this problem, and as part of the dovetail conversion each instrument and its corresponding rhomboid is to receive a metal tag with large, clearly visible, matched serial numbers. We feel that this should be sufficient to prevent the accidental interchange of rhomboids assuming appropriate briefing of the interpreters. As equipment gets more complicated and expensive, the users will have to be thoroughly indoctrinated in its care and use and, perhaps most important, be taught to respect it. If this is not done, no amount of individualizing will ever solve the basic problem.

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Colonel, USAF  
Assistant for Plans and Development, NPIC

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NPIC/P&DS/D

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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IPO/OSB/M-101-66  
12 January 1966

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

SUBJECT: Dovetail Modification for  Zoom 70 Microstereoscopes

1. Since the advent of the Zoom 70  Microstereoscope and a detachable rhomboid, difficulty has been encountered in keeping these paired. This problem has existed in PAG and other areas and seemingly no amount of instruction and/or briefing on the danger of this practice can overcome the expediency or convenience of switching rhomboids. An excellent opportunity to overcome the temptation of using the most available rhomboid is afforded if the proposed dovetail modification can be planned to slightly alter the machine fit. Although it is understood that machining tolerances will vary slightly, a more drastic change should be considered. These changes need not be physically built-in to each instrument; however, three or four may be the same but the next group should be altered. This, in our opinion, would greatly simplify the pairing of microscope and rhomboid. The P&DS Maintenance Section has been exposed to our problem on numerous occasions.

2. It is hoped that this suggestion will be of some merit and that it will be considered as a solution to the problems stated. Your cooperation and comments would be appreciated.

Colonel, USA  
Assistant for Photographic Analysis, NPIC

Distribution:

- 2 - Addressee
- 1 - IPO/OSB/PAG
- 1 - Asst/PA